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that spot, and whose example, he hoped, would stimulate and inspire every one who came to work under that roof. The laboratory is open to persons of either sex and of any nationality who can satisfy the laboratory committee that they are fully qualified to undertake original scientific research in pure or physical chemistry, preference being given to those who have already published original work. The directors of the laboratory are Lord Rayleigh and Professor Dewar.

In the *Comptes Rendus* for December 2d Stanislas Meunier recorded observations on some asphaltic rocks and on the origin of asphalt. From the behavior of bituminous rocks towards solvents the conclusion is drawn that bitumen is the result of purely mineral reactions, as of the double decomposition of metallic carbids and water.

J. L. H.

#### ASTRONOMICAL NOTES.

THE *Astronomische Nachrichten* of January 4th contains a description by Professor Deichmüller, of a new instrument devised by him for fixing the position of the zenith with a meridian circle. The telescope is pointed approximately at the zenith, and the new instrument is mounted above the object glass. It consists of a circular disc of parallel surfaced glass floating in mercury. The vessel containing the mercury is so shaped that the glass is supported at its edges only, so that it is possible to get an unobstructed view of the sky through the middle portion of the glass. It is thus possible to observe the reflected image of the wires, and then to transfer the position of the zenith to the sky without the use of any graduated circle. The instrument is ingenious, and the principle is novel. Prof. Deichmüller gives some very accordant observations made with it. As in the case of all the floating collimators, however, it will be necessary to make sure that the

opposite sides of the mercury do not differ in temperature.

THE December Monthly Notices of the Royal Astronomical Society contains an interesting article by Prof. Rambaut, of Dublin, on a method of correcting the rate of an equatorial clock, so as to make the telescope follow very nearly the motion of the stars for the purposes of photography. Professor Rambaut gives formulæ for calculating the effect of refraction upon the apparent rate of diurnal motion of the stars, and shows how this effect can be very nearly compensated by varying the clock rate. In this way the work of the observer can be made much easier.

THE Wasburn Observatory of the University of Wisconsin has issued Vol. X., Part I., of its Publications. It contains a series of double-star observations by Professor Geo. C. Comstock.

THE director's report of the Harvard College Observatory for the year 1896 has appeared. From it we learn that the new Bruce photographic telescope has been transported to Peru, and successfully mounted at Arequipa.

H. J.

#### SCIENTIFIC NOTES AND NEWS.

MR. CHARLES D. WALCOTT, the Director of the United States Geological Survey, has been appointed Acting Assistant Secretary of the Smithsonian Institution, with duties confined to the charge of the National Museum. It is understood that Mr. Walcott has not taken the new office permanently and that he does not expect to give his full time to the duties of administration of the affairs of the Museum, these being left largely to the present permanent staff of that institution. He will exercise a general supervision and direction of the affairs of the Museum in addition to his present duties as Director of the Geological Survey. Mr. Walcott is well acquainted with the administration of the National Museum. For the past twelve years he has held the position of Honorary Curator in the Museum and for